



Seqlist.ST25.txt
SEQUENCE LISTING

<110> Meristem Therapuetics

<120> Chimeric expression promoters originating from commelina yellow mottle virus
and cassava vein mosaic virus

<130> 184332042

<140> 09/963803

<141> 2001-09-26

<150> FR 99/03925

<151> 1999-03-29

<150> PCT IB00/00370

<151> 2000-10-05

<160> 39

<170> PatentIn version 3.1

<210> 1

<211> 243

<212> DNA

<213> Artificial sequence

<220>

<223> 243 bp Fragment from the intergenic region of commelina yellow mottle virus

<220>

<221> promoter

<222> (1)..(243)



Seqlist.ST25.txt

<223>

<400> 1
atccgccgtc atcaatgaca tcatcacagt actgaggaga tgaatactta gccatgaagt 60
agcgtgcgaa tattacctat gcctttattc gcagcgtag tggcactgaa aggcataaag 120
tttgttcgtt cttatcaaaa acgaatctta tctttgtaac ttggttaccg ggtatgccgg 180
ttcccaagct ttatttcctt atttaagcac ttgtgtagta gcttagaaaa ccaacacaac 240
aac 243

<210> 2

<211> 515

<212> DNA

<213> Artificial Sequence

<220>

<223> Promoter from the intergenic region of Cassava Vein Mosaic virus
of 515 bp in length EMBL

<220>

<221> promoter

<222> (1)..(515)

<223>

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ccagaaggta attatccaag atgtagcatc aagaatccaa tgtttacggg aaaaactatg 60
gaagtattat gtgagctcag caagaagcag atcaatatgc ggcacatatg caacctatgt 120
tcaaaaatga agaattgtaca gatacaagat cctatactgc cagaatacga agaagaatac 180
gtagaaattg aaaaagaaga accaggcgaa gaaaagaatc ttgaagacgt aagcactgac 240
gacaacaatg aaaagaagaa gataagggtcg gtgattgtga aagagacata gaggacacat 300
gtaagggtga aatgtgaagg gcggaaagta accttatcac aaaggaatct tatccccac 360
tacttatcct tttatatattt tccgtgtcat ttttgccctt gagttttcct atataaggaa 420
ccaagtccgg catttgtaga aacaagaaaa aatttggtgt aagctatttt ctttgaagta 480
ctgaggatac aacttcagag aaatttgtaa gtttg 515

<210> 3

Seqlist.ST25.txt

<211> 317
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Promoter MPr1116
 <220>
 <221> promoter
 <222> (1)..(317)
 <223>

<400> 3	
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agatgaatag ctagccatga cactctgtgc gaatattgaa gacgtaagca ctgacgacaa	120
caatgaaaag aagaagataa ggctcggatg tgtgaaagag acatagagga cacatgtaag	180
gtggaaaatg taagggcgga aagtaacctt atgcatttgt aacttggtta cccgggatgc	240
cggttcccaa gctttatttc cttatttaag cacttggtga gtagcttaga aaaccaacac	300
aacaacctag aggatcc	317

<210> 4
 <211> 348
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> promoter MPr1117
 <220>
 <221> promoter
 <222> (1)..(348)
 <223>

<400> 4	
aagcttgcat gcctgcagac tagtatccgc cgcatcaat gacatcatca gactagtatc	60

Seqlist.ST25.txt

cgccgtcatc aatgacatca tcacagtact gaggagatga atagctagcc atgacactct	120
gtgcgaatat tgaagacgta agcactgacg acaacaatga aaagaagaag ataaggtcgg	180
tgattgtgaa gagacataga ggacacatgt aagggtggaaa atgtaagggc ggaaagtaac	240
cttatgcatt tgtaacttgg ttacccggta tgctggttcc caagctttat ttccttattt	300
aaacttgtgt agtagcttag aaaaccaaca caacaaccta gaggatcc	348

<210> 5

<211> 371

<212> DNA

<213> Artificial Sequence

<220>

<223> promoter MPr1146

<220>

<221> promoter

<222> (1)..(371)

<223>

<400> 5	
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agatgaatag ctatgtgattg atgtgatatc aagattgatg tgatatctcc actgacgtaa	120
gggatgacgc atgccactct gtgcgaatat tgaagacgta agcactgacg acaacaatga	180
aaagaagaag ataaggtcgg tgattgtgaa agagacatag aggacacatg taagggtggaa	240
aatgtaaggg cggaagtaa ctttatgcac ttgtaacttg gttacccggt atgccgggttc	300
ccaagcttta tttccttatt taagcacttg ttagtagtagt tagaaaacca acacaacaac	360
ctagaggatc c	371

<210> 6

<211> 398

<212> DNA

<213> Artificial Sequence

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Seqlist.ST25.txt

<223> promoter MPr1147

<220>

<221> promoter

<222> (1)..(398)

<223>

<400> 6

aagcttgc	gcctgcagac	tagtatccgc	cgatcatcaat	gacatcatca	gactagtatc	60
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tggattgatg	tgatatctcc	actgacgtaa	gggatgacgc	atgccactct	gtgcgaatat	180
tgaagacgta	agcactgacg	acaacaatga	aaagaagaag	ataaggtcgg	tgattgtgaa	240
gagacataga	ggacacatgt	aagggtgaaa	atgtaagggc	ggaaagtaac	cttatgcatt	300
tgtaacttgg	ttacccggta	tgctggttcc	caagctttat	ttccttattt	aaacttgtgt	360
agtagcttag	aaaaccaaca	caacaaccta	gaggatcc			398

<210> 7

<211> 301

<212> DNA

<213> Artificial Sequence

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<223> promoter MPr1154

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<221> promoter

<222> (1)..(301)

<223>

<400> 7

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aagataaggt	cgggtgattgt	gaagagacat	agaggacaca	tgtaagggtg	aaaatgtaag	180
ggcggaaagt	aaccttatgc	atttgtaact	tggttaccgc	gtatgctggt	tcccaagctt	240
tatttcctta	tttaaacctg	tgtagtagct	tagaaaacca	acacaacaac	ctagaggatc	300

c 301

<210> 8

<211> 65

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional desoxynucleotide building block

s1

<400> 8

catgctgcag actagtatcc gccgtcatca atgacatcat cacagtactg aggagatgaa 60

tagct 65

<210> 9

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional desoxynucleotide building block

s2

<400> 9

agccatgaca ctctgtgcga atattgaaga cgtaagcact gacgacaaca atgaaaagaa 60

<210> 10

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional desoxynucleotide building block

s3

Seqlist.ST25.txt

<400> 10
gaagataagg tcggtgattg tgaaagagac atagaggaca catgtaaggt ggaaaatgta 60
ag 62

<210> 11

<211> 63

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional desoxynucleotide building block

S4

<400> 11
ggcggaaagt aaccttatgc atttgtaact tggttaccg gtatgccggt tcccaagctt 60
tat 63

<210> 12

<211> 63

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional desoxynucleotide building block

S5

<400> 12
ttccttattt aagcacttgt gtagtagctt agaaaaccaa cacaacaacc tagaggatcc 60
ccg 63

<210> 13

<211> 63

<212> DNA

<213> Artificial Sequence

Seqlist.ST25.txt

<220>

<223> Directional desoxynucleotide building block

S6

<400> 13

catgctgcag actagtggat tgatgtgata tctccactga cgtaagggat gacgcatgcc 60

act 63

<210> 14

<211> 79

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional desoxynucleotide building block

S7

<400> 14

catgctgcag actagtgatt gatgtgatat caagattgat gtgatatctc cactgacgta 60

agggatgacg catgccact 79

<210> 15

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Guide desoxynucleotide building

block G1

<400> 15

gactcctcta cttatcgatc ggtactgtga gaca 34

<210> 16

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Guide desoxynucleotide building
block G2

<400> 16
gctgttgta cttttcttct tctattccag cca

33

<210> 17

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Guide desoxynucleotide building
block G3

<400> 17
attccacctt ttacattccc gcctttcatt g

31

<210> 18

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Guide desoxynucleotide building
block G4

<400> 18
caagggttcg aaataaagga ataaattcgt ga

32

<210> 19

<211> 393

<212> DNA

Seqlist.ST25.txt

<213> Artificial Sequence

<220>

<223> promoter MPr1162

<220>

<221> promoter

<222> (1)..(393)

<223>

<400> 19	
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ggagatgaat agctagccat gacactctgt gcgaatattg aagacgtaag cactgacgac	120
aacaatgaaa agaagaagat aaggctcggg attgtgaaag agacatagag gacacatgta	180
aggtggaaaa tgtaagggcg gaaagtaacc ttatgcattt gtaatttggt tacgactagt	240
gattgatgtg atatcaagat tgatgtgata tctccactga cgtaagggat gacgcatgcc	300
acgttaccg gtatgccggg tccaagctt tatttcctta tttaagcact tgtgtagtag	360
cttagaaaac caacacaaca acctagagga tcc	393

<210> 20

<211> 462

<212> DNA

<213> Artificial Sequence

<220>

<223> promoter MPr1163

<220>

<221> promoter

<222> (1)..(462)

<223>

<400> 20	
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ggagatgaat agctagccat gacactctgt gcgaatattg aagacgtaag cactgacgac	120

Seqlist.ST25.txt

aacaatgaaa agaagaagat aagggtcggtg attgtgaaag agacatagag gacacatgta	180
aggtggaaaa tgtaagggcg gaaagtaacc ttatgcattt gtaatttggt tacgactagt	240
gattgatgtg atatcaagat tgatgtgata tctccactga cgtaagggat gacgcatgcc	300
acgactagtg attgatgtga tatcaagatt gatgtgatat ctccactgac gtaagggatg	360
acgcatgcca cgttacccgg tatgccggtt cccaagcttt atttccttat ttaagcactt	420
gtgtagtagc ttagaaaacc aacacaacaa cctagaggat cc	462

<210> 21

<211> 392

<212> DNA

<213> Artificial Sequence

<220>

<223> promoter MPr1164

<220>

<221> promoter

<222> (1)..(392)

<223>

<400> 21

aagcttgcac gcctgcagca ctagtatccg ccgtcatcaa tgacatcatc acagtactga	60
ggagatgaat agctagccat gacactctgt gcgaatattg aagacgtaag cactgacgac	120
aacaatgaaa agaagaagat aagggtcggtg attgtgaaag agacatagag gacacatgta	180
aggtggaaaa tgtaagggcg gaaagtaacc ttatgcattt gtaatttggt tacgtggcat	240
gcgtcatccc ttacgtcagt ggagatatca catcaatctt gatatcacat caatcactag	300
tcgttacccg gtatgccggt tccaagctt tatttcctta ttaagcact tgtgtagtag	360
cttagaaaac caacacaaca actagaggat cc	392

<210> 22

<211> 600

<212> DNA

<213> Artificial Sequence

Seqlist.ST25.txt

<220>

<223> promoter MPr1165

<220>

<221> promoter

<222> (1)..(600)

<223>

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<400> 22
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ggagatgaat agctagccat gacactctgt gcgaatattg aagacgtaag cactgacgac      120
aacaatgaaa agaagaagat aaggtcggtg atttgtgaaag agacatagag gacacatgta      180
aggtggaaaa tgtaagggcg gaaagtaacc ttatgcattt gtaatttggt tacgactagt      240
gattgatgtg atatcaagat tgatgtgata tctccactga cgtaagggat gacgcatgcc      300
acgactagtg attgatgtga tatcaagatt gatgtgatat ctccactgac gtaagggatg      360
acgcatgcca cgactagtga ttgatgtgat atcaagattg atgtgatatc tccactgacg      420
taagggatga cgcatgccac gactagtgat tgatgtgata tcaagattga tgtgatatct      480
ccactgacgt aagggatgac gcatgccacg ttacccggtg tgccggttcc caagctttat      540
ttccttattt aagcacttgt gtagtagctt agaaaaccaa cacaacaacc tagaggatcc      600

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<210> 23

<211> 604

<212> DNA

<213> Artificial Sequence

<220>

<223> promoter MPr1167

<220>

<221> promoter

<222> (1)..(604)

<223>

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<400> 23
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Seq1ist.ST25.txt

cgccgtcatc aatgacatca tcacagtact gaggagatga atagctagtc tgcagactag	120
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tgaagacgta agcactgacg acaacaatga aaagaagaag ataaggtcgg tgattgtgaa	240
gagacataga ggacacatgt aagggtgaaa atgtaagggc ggaaagtaac cttatgcatt	300
tgtaacttgg ttacctagtg attgatgtga tatcaagatt gatgtgatat ctccactgac	360
gtaagggatg acgcatgccca cctagtgtatt gatgtgatat caagattgat gtgatatctc	420
cactgacgta agggatgacg catgccacct agtgattgat gtgatatcaa gattgatgtg	480
atatctccac tgacgtaagg gatgacgcat gccacgttac ccggtatgct gggtcccaag	540
ctttatttcc ttatttaaac ttgtgtagta gcttagaaaa ccaacacaac aacctagagg	600
atcc	604

<210> 24

<211> 541

<212> DNA

<213> Artificial Sequence

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<223> promoter MPr1168

<220>

<221> promoter

<222> (1)..(541)

<223>

<400> 24

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tggattgatg tgatatctcc actgacgtaa gggatgacgc atgccactct gtgcgaatat	180
tgaagacgta agcactgacg acaacaatga aaagaagaag ataaggtcgg tgattgtgaa	240
gagacataga ggacacatgt aagggtgaaa atgtaagggc ggaaagtaac cttatgcatt	300
tgtaacttgg ttacgactag tgattgatgt gatatcaaga ttgatgtgat atctccactg	360
acgtaagggg tgacgcatgc cagcactagt gattgatgtg atatcaagat tgatgtgata	420
tctccactga cgtaagggat gacgcatgcc acgttaccgc gtatgctggg tcccaagctt	480

seqlist.ST25.txt

tatttcctta tttaaacttg tgtagtagct tagaaaacca acacaacaac ctagaggatc 540

c 541

<210> 25

<211> 472

<212> DNA

<213> Artificial Sequence

<220>

<223> promoter MPr1169

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<221> promoter

<222> (1)..(472)

<223>

<400> 25

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cgccgtcatc aatgacatca tcacagtact gaggagatga atagctagtc tgcagactag 120

tggattgatg tgatatctcc actgacgtaa gggatgacgc atgccactct gtgcgaatat 180

tgaagacgta agcactgacg acaacaatga aaagaagaag ataaggtcgg tgattgtgaa 240

gagacataga ggacacatgt aaggtggaaa atgtaagggc ggaaagtaac cttatgcatt 300

tgtaacttgg ttacgactag tgattgatgt gatatcaaga ttgatgtgat atctccactg 360

acgtaaggga tgacgcatgc cacgttacc ggtatgctgg ttcccaagct ttatttcctt 420

atttaaactt gtgtagtagc ttagaaaacc aacacaacaa cctagaggat cc 472

<210> 26

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide probe

<400> 26

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20

seqlist.ST25.txt

<210> 27

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide probe

<400> 27

cggggacccct ctaggttgt

19

<210> 28

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> deoxynucleotide primer

<400> 28

ttgatttcac gggttggg

18

<210> 29

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> oligodeoxynucleotide primer

<400> 29

catgctgcag actagtggat t

21

<210> 30

<211> 20

<212> DNA

<213> Artificial Sequence

Seqlist.ST25.txt

<220>

<223> oligonucleotide primer

<400> 30

cggggatcct ctaggtttct

20

<210> 31

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Deoxynucleotide primer

<400> 31

atttaggtga cactatag

18

<210> 32

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide primer

<400> 32

taaatccact gtgatatctt atg

23

<210> 33

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> deoxynucleotide primer

<400> 33

atatgagact ctaattggat accgagggg

29

Seqlist.ST25.txt

<210> 34

<211> 70

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional Desoxynucleotide

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ttcccttcaa acacatacaa attcagtaga gaagaaactc attactcttg agaaacctag 60

aggatccccg 70

<210> 35

<211> 70

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional Desoxynucleotide

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tctctttcga 70

<210> 36

<211> 72

<212> DNA

<213> Artificial Sequence

<220>

<223> Directional Desoxynucleotide

<400> 36

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acatcttagc ca 72

<210> 37

Seqlist.ST25.txt

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> directional oligodesoxynucleotides

<400> 37

tgtgtttgaa gggaatcgaa agagagacac a

31

<210> 38

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> directional oligodesoxynucleotides

<400> 38

gattgggttt ttgtgtggct aagatgtgtg

30

<210> 39

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> directional oligodesoxynucleotides

<400> 39

tgtagatgtg ccacagagtg gcatgcgt

28